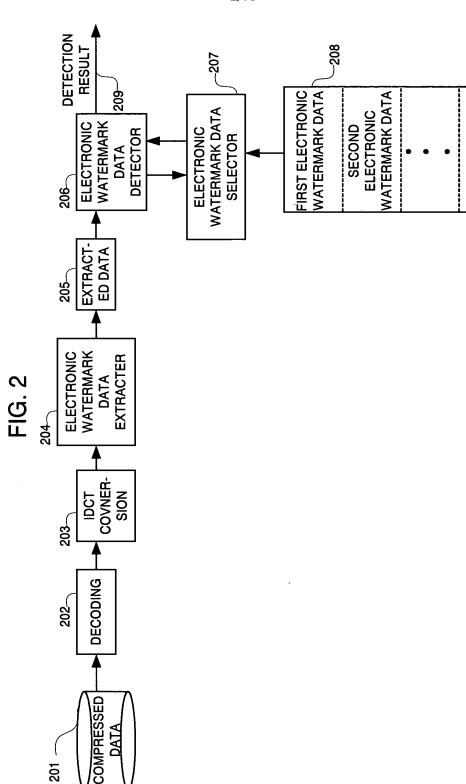
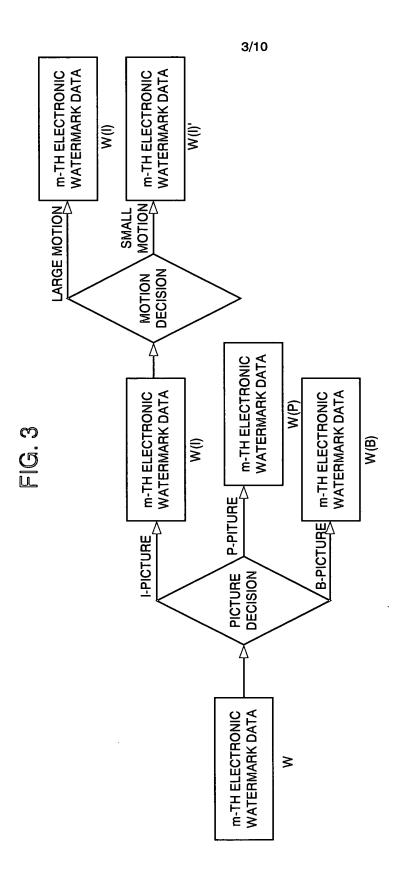


j-TH ELECTRRONIC WATERMARK DATA

≥





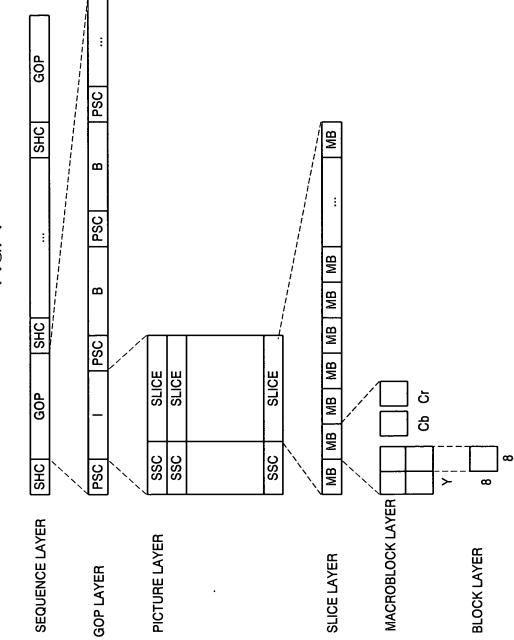


FIG. 4

FIG. 5

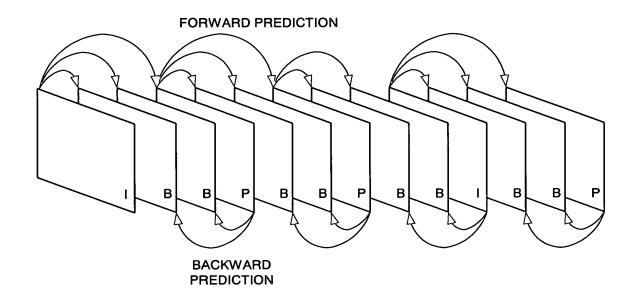
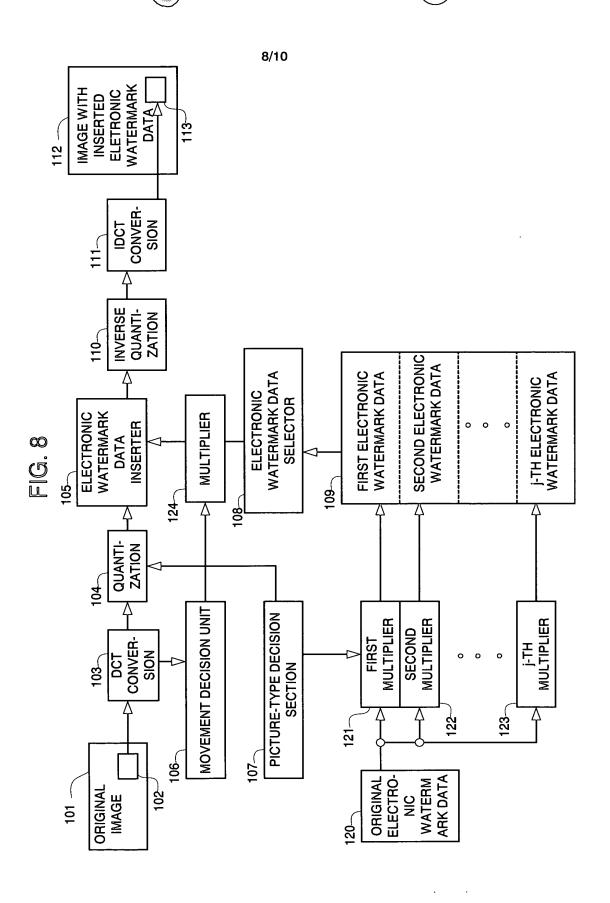


FIG. 6

| I | | I+W(I) | | |
|---|-----------------------------|--------|--|--|
| В | | B+W(B) | | |
| В | | B+W(B) | | |
| Р | | P+W(P) | | |
| В | | B+W(B) | | |
| В | ELECTRONIC | B+W(B) | | |
| Р | WATERMARK DATA INSERTION | P+W(P) | | |
| В | | B+W(B) | | |
| В | | B+W(B) | | |
| I | | I+W(I) | | |
| В | | B+W(B) | | |
| В | | B+W(B) | | |
| Р | | P+W(P) | | |
| 0 | | 0 | | |
| 0 | | 0 | | |

| | | | | | HORIZONTAL SPACE FREQUENCY fH | | | | |
|----------------------------------|----|----|----|----|----------------------------------|----|----|----|---|
| | 1 | 2 | 6 | 7 | 15 | 16 | 28 | 29 | |
| VERTICAL SPACE FREQUENCY fV < | 3 | 5 | 8 | 14 | 17 | 27 | 30 | 43 | |
| | 4 | 9 | 13 | 18 | 26 | 31 | 42 | 44 | |
| | 10 | 12 | 19 | 25 | 32 | 41 | 45 | 54 | |
| | 11 | 20 | 24 | 33 | 40 | 46 | 53 | 55 | |
| | 21 | 23 | 34 | 39 | 47 | 52 | 56 | 61 | |
| | 22 | 35 | 38 | 48 | 51 | 57 | 60 | 62 | |
| | 36 | 37 | 49 | 50 | 58 | 59 | 63 | 64 | |
| > " | L | | | L | <u> </u> | | L | L | l |



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CONVERTER 504 502 DETECTOR BUFFER 503 501 SIGNAL VIDEO

FIG. 9 PRIOR ART



